

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Tsuguo MARU

Date: May 11, 2001

Serial No.:

Group Art Unit:

Filed:

Examiner:

For: HIGH-SPEED TURBO DECODER

Asst. Commissioner for Patents

Washington, D.C. 20231

**AMENDMENT/SUBMISSION**

Prior to examination, please amend the application as follows.

**FEE CALCULATION**

Any additional fee required has been calculated as follows:

\_\_\_\_\_ If checked, "Small Entity" status is claimed.

NO. CLAIMS			HIGHEST NO.						
AFTER			PREVIOUSLY			ADDIT.			
AMENDMENT			PAID FOR		EXTRA PRESENT		RATE		FEE
TOTAL	33	MINUS	20	* =	13	X	(\$9 SE or \$18)	\$	234.00
INDEP.	4	MINUS	3	** =	1	X	(\$40 SE or \$80)	\$	80.00
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM						X	(\$135 SE or \$270)	\$	
* not less than 20 ** not less than 3									TOTAL \$ 314.00

\* not less than 20 \*\* not less than 3

If any additional payment is required, a check which includes the calculated fee of \$314.00 (OFGS Check No. 4601) is attached.

In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee during the prosecution of this application is not paid, the Patent Office is authorized to charge the underpayment to Deposit Account No. 15-0700.

## CONTINGENT EXTENSION REQUEST

If this communication is filed after the shortened statutory time period had elapsed and no separate Petition is enclosed, the Commissioner of Patents and Trademarks is petitioned, under 37 C.F.R. §1.136(a), to extend the time for filing a response to the outstanding Office Action by the number of months which will avoid abandonment under 37 C.F.R. §1.135. The fee under 37 C.F.R. § 1.17 should be charged to our Deposit Account No. 15-0700.

## AMENDMENTS

☒ If checked, amendment(s) to the specification and/or claims are submitted herewith.

1. ☐ If checked, an abstract is submitted as the last page of Appendix A.

### 2. Specification:

Please delete the paragraph beginning at page 4, line 24, (and ending at page 5, line 1), and replace such paragraph pursuant to 37 C.F.R. § 1.121(b)(ii) with the “clean” version attached hereto as Appendix A. Entry is respectfully requested. A version with markings to show the changes made pursuant to 37 C.F.R. § 1.121(b)(iii) is attached hereto as Appendix B.

### 3. Claims:

Please amend claims 2 and 23 and add new claims 29-33 pursuant to 37 C.F.R. § 1.121(c)(i) as set forth in the “clean” version attached hereto as Appendix A. Entry is respectfully requested. A version with markings to show the changes made pursuant to 37 C.F.R. § 1.121(c)(ii) is attached hereto as Appendix B.

☐ If checked, the optional complete set of “clean” claims pursuant to 37 C.F.R. § 1.121(c)(3) is attached hereto as Appendix C.

## REMARKS/ARGUMENT

This Preliminary Amendment is being submitted to correct a word processing error in the specification and claim 2 and to change the multiple dependent claim to a single dependent claim in order to reduce the government filing fee.

### EXPRESS MAIL CERTIFICATE

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail to Addressee (mail label # EL613111770US) in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231, on May 11, 2001:

Dorothy Jenkins

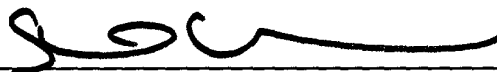
Name of Person Mailing Correspondence

  
Signature

May 11, 2001

Date of Signature

Respectfully submitted,



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**APPENDIX A**  
**“CLEAN” VERSION OF EACH PARAGRAPH/SECTION/CLAIM**  
**37 C.F.R. § 1.121(b)(ii) AND (c)(i)**

**SPECIFICATION:**

Replacement for the paragraph beginning at page 4, line 24:

The state metric updating means in the first main aspect is of a sliding window type, and therefore update progress of each of state metrics is indicated.

**CLAIMS (with indication of amended or new):**

(Amended) 2. A decoder according to claim 1, wherein said state metric updating means is of a sliding window type, whereby update progress of each of state metrics is indicated in a window for every K stages.

(Amended) 23. A decoder according to claim 5, wherein a series concatenation encoding method is used as a turbo code encoding method.

(New) 29. A decoder according to claim 6, wherein a series concatenation encoding method is used as a turbo code encoding method.

(New) 30. A decoder according to claim 7, wherein a series concatenation encoding method is used as a turbo code encoding method.

(New) 31. A decoder according to claim 8, wherein a series concatenation encoding method is used as a turbo code encoding method.

(New) 32. A decoder according to claim 9, wherein a series concatenation encoding method is used as a turbo code encoding method.

(New) 33. A decoder according to claim 10, wherein a series concatenation encoding method is used as a turbo code encoding method.

## APPENDIX B

### VERSION WITH MARKINGS TO SHOW CHANGES MADE

37 C.F.R. § 1.121(b)(iii) AND (c)(ii)

#### SPECIFICATION:

Paragraph at page 4, line 24 to page 5, line 1:

The state metric updating means in the first main aspect is of a sliding window type, and [state metrics are stored] therefore update progress of each of state metrics is indicated.

#### CLAIMS:

2. A decoder according to claim 1, wherein said state metric updating means is of a sliding window type, [and state metrics are stored] whereby update progress of each of state metrics is indicated in a window for every K stages.

23. A decoder according to [claim any one of claims 5 to 10] claim 5, wherein a series concatenation encoding method is used as a turbo code encoding method.